

Title (en)  
TRANSPONDER

Title (de)  
TRANSPONDER

Title (fr)  
TRANSPONDEUR

Publication  
**EP 1461768 B1 20051116 (EN)**

Application  
**EP 02788283 A 20021127**

Priority  
• EP 02788283 A 20021127  
• EP 01205080 A 20011224  
• IB 0204999 W 20021127

Abstract (en)  
[origin: WO03056508A1] An identification transponder (IDT) for supplying an identification code to a base station (BS) varies an RF signal transmitted by the base station (BS) in a rhythm that corresponds to the identification code. The identification transponder (IDT) has identification code generation means (IDCG) for generating the identification code, rectifier means (RTF) for AC coupling with the base station (BS) for applying a supply voltage (V1) to the identification code generation means (IDCG), a modulation transistor (TM), voltage adaptation means (VADPT) for adapting the voltage levels of the identification code and for supplying the code with adapted voltage levels to a control terminal of the modulation transistor (TM), and further rectifier means (FRTF) for the aforementioned AC coupling to the base station (BS) for applying a separate supply voltage (V2) to the voltage adaptation means (VADPT). The modulation transistor (TM) may perform two tasks: the task of rectifying the RF signal, and the task of supplying a variable load to the rectifier means (RTF). The variable load varies in the rhythm. As a consequence, the input current of the rectifier means (RTF) is varied in the rhythm, which in its turn varies the RF signal. This variation in the RF signal is detected in the base station (BS).

IPC 1-7  
**G06K 19/07**

IPC 8 full level  
**G06K 19/07** (2006.01); **H04B 1/59** (2006.01); **H04B 5/48** (2024.01)

CPC (source: EP US)  
**G06K 19/0723** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)  
**WO 03056508 A1 20030710**; AT E310283 T1 20051215; AU 2002353262 A1 20030715; CN 1322466 C 20070620; CN 1608275 A 20050420; DE 60207446 D1 20051222; DE 60207446 T2 20060803; EP 1461768 A1 20040929; EP 1461768 B1 20051116; JP 2005513938 A 20050512; JP 4209331 B2 20090114; US 2005093680 A1 20050505; US 7253718 B2 20070807

DOCDB simple family (application)  
**IB 0204999 W 20021127**; AT 02788283 T 20021127; AU 2002353262 A 20021127; CN 02825977 A 20021127; DE 60207446 T 20021127; EP 02788283 A 20021127; JP 2003556950 A 20021127; US 49926804 A 20040618